

No. 639,883.

Patented Dec. 26, 1899.

D. BASCH.

TOE CLIP.

(Application filed Dec. 17, 1898.)

(No Model.)

Fig. 1,

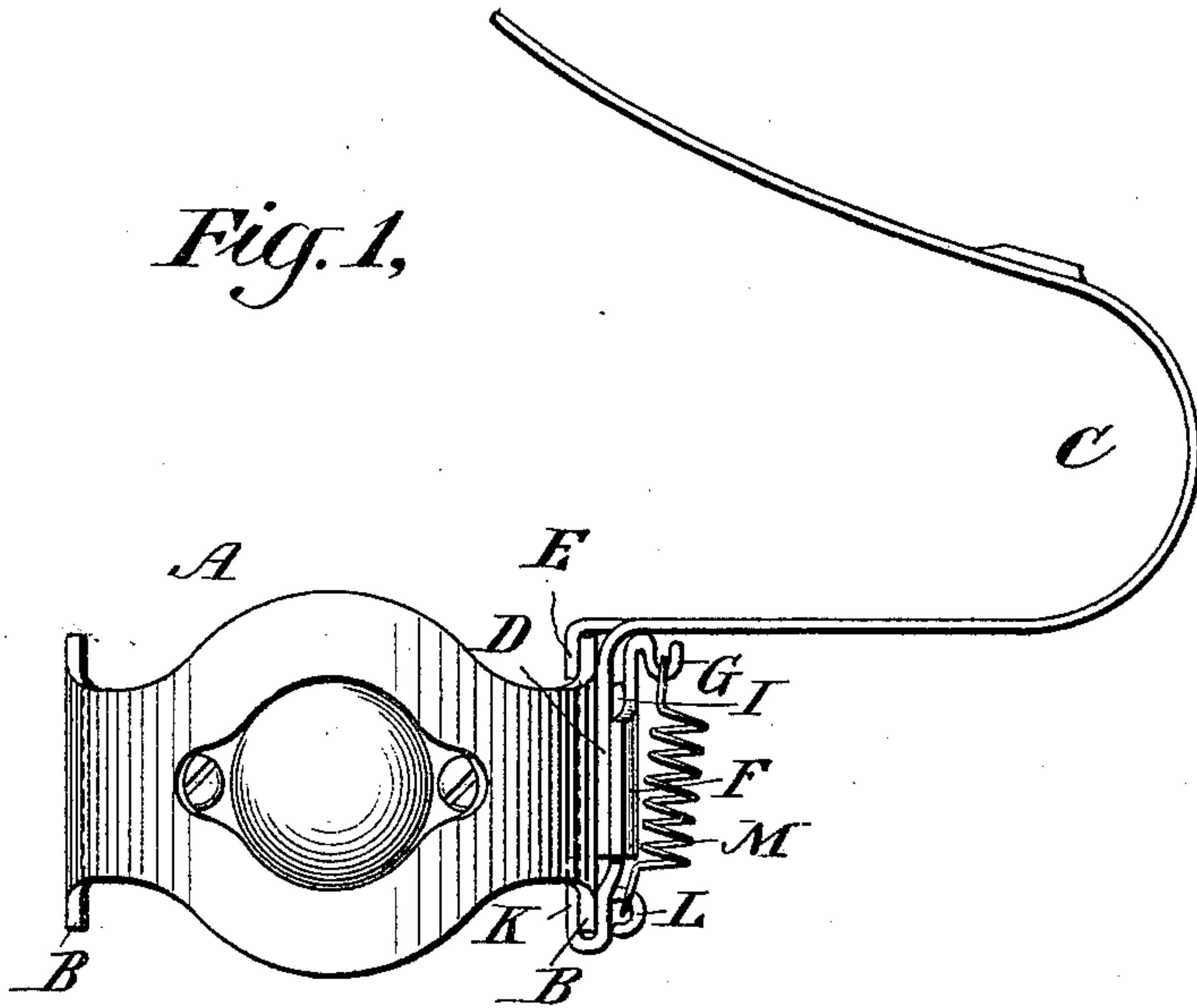


Fig. 2,

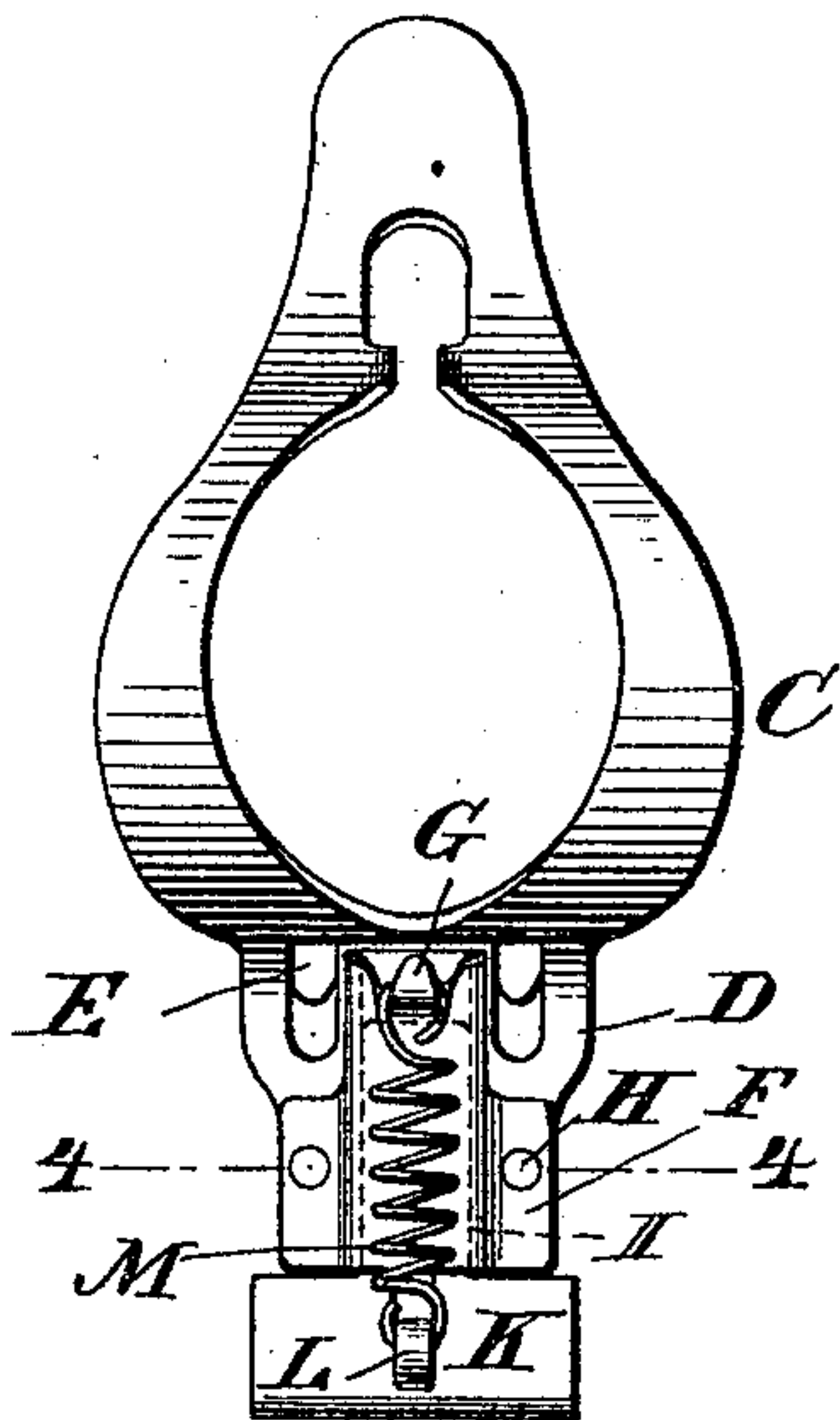


Fig. 3,

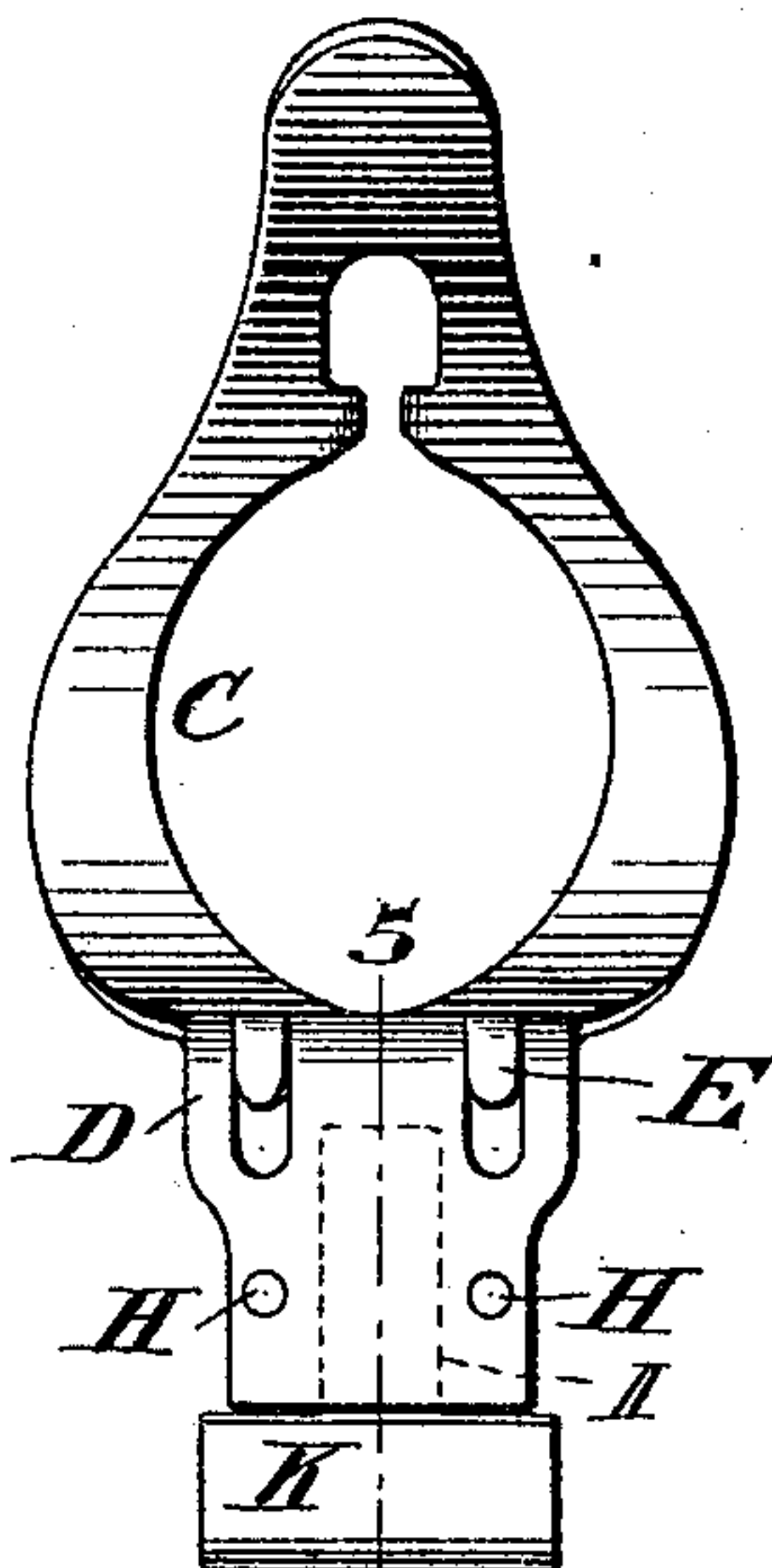


Fig. 4,

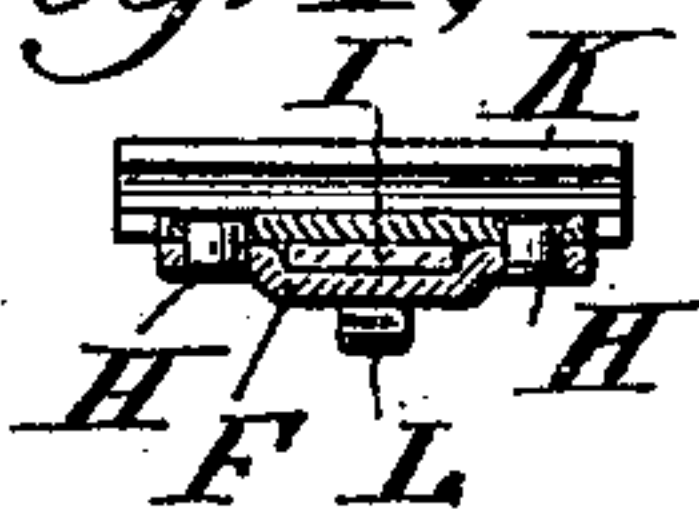
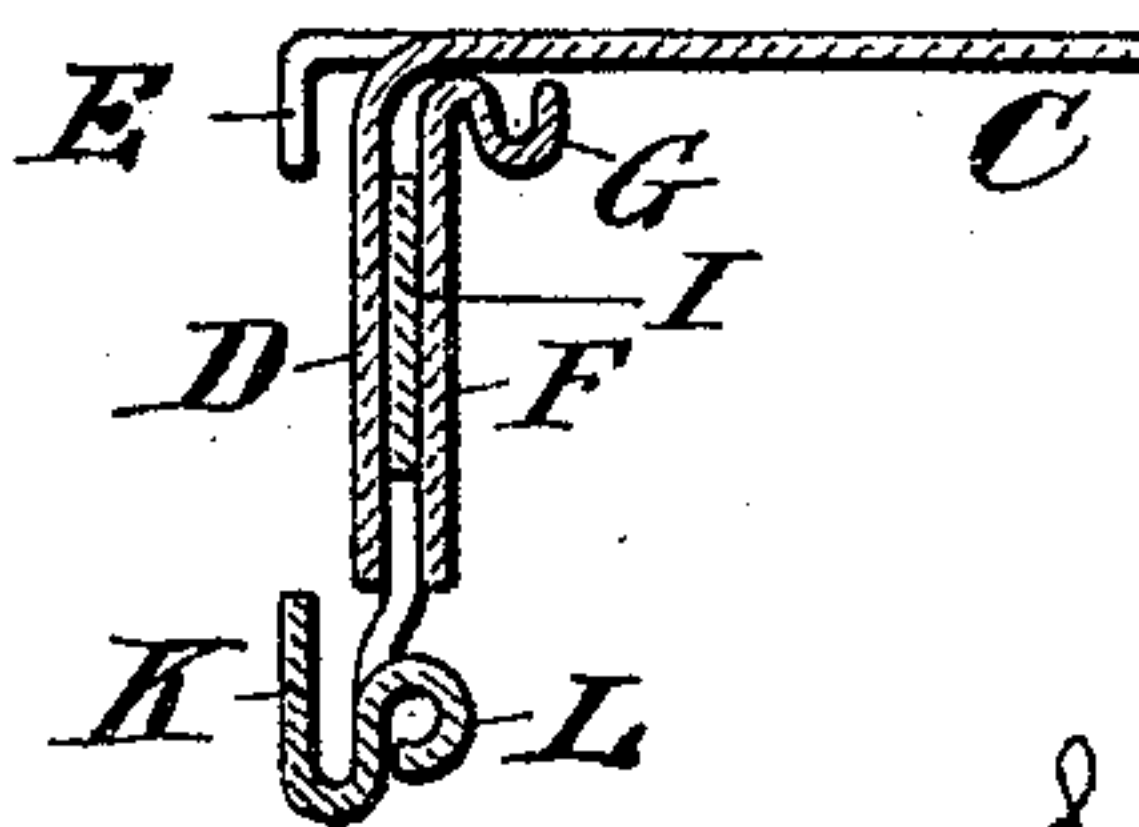


Fig. 5,



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TOE-CLIP.

SPECIFICATION forming part of Letters Patent No. 639,883, dated December 26, 1899.

Application filed December 17, 1898. Serial No. 699,524. (No model.)

To all whom it may concern:

Be it known that I, DAVID BASCH, a citizen of the United States, residing at New York city, State of New York, have invented a new and useful Improvement in Toe-Clips, of which the following is a specification.

My invention relates to improvements in toe-clips for the pedals of bicycles and the like, and has for its object the production of an automatically-adjustable toe-clip whereby one standard size of clip can be adapted to pedal side bars or plates of different widths, the clip being readily and quickly attachable to or detachable from the pedal without the intervention of screws or bolts or other similar fastenings.

A serious objection to the use of toe-clips has been the difficulty of attaching them to or detaching them from the pedal. To obviate this objection by the peculiar construction and arrangement of parts hereinafter more particularly described and claimed, whereby the operation may be easily and quickly done by hand without the use of any tools whatsoever.

I shall first describe in detail the construction and operation of my improvement, referring to the accompanying drawings, forming a part of the specification, which drawings illustrate one method of carrying out my improvement.

Figure 1 is an end view of a pedal having my improved clip attached thereto. Fig. 2 is a front view of the clip detached from the pedal. Fig. 3 is a rear view of the clip detached from the pedal. Fig. 4 is a cross-section of the clip shown in Fig. 2 along the line 4 4. Fig. 5 is a cross-section of the clip as shown in Fig. 3 along the line 5 5.

Similar letters indicate similar parts throughout the several views.

A is a pedal, which may be of any ordinary form, having side bars or plates B B, one on each side of the pedal.

C is a toe-clip of any desirable shape.

D is a portion of the toe-clip bent downward at right angles, forming a rigid arm adapted to fit against the side plate B of the pedal. The toe-clip is formed with hooks or engaging pieces E E, adapted to fit over the upper edge of the side plate B and to serve as a clamp,

thus assisting in retaining the clip in position. The hooks should be so arranged that they will prevent the tilting of the clip from side to side on the side plate.

F is a plate having a hook G at its upper end and adapted to be riveted to the front of the part D by rivets H H. The plate F is stamped up or recessed so as to form a guideway, in which the tongue I moves. The tongue I has at its lower end a hook or engaging piece K, adapted to engage the lower edge of side plate B and to hold the clip against said side plate in connection with the hooks E E. On the front of the hook K is an eye or hook L, adapted to hold one end of a spring M, the other end of the spring being attached to the hook G at the upper end of the plate F. Both the hooks E E and the hook K should be adapted to fit closely over the side plate B, so as to prevent any backward-and-forward motion. It will be readily seen that when the hook K is placed over the lower edge of side plate B the hooks E E, by an upward pull causing the tongue I to slide between the plate F and the part D, may be clamped over the upper edge of the side plate. The clamp as a whole is adjustable upward and downward by means of the play of the tongue I, it being held by the spring M.

It is obvious that one or more hooks or engaging pieces may be used in place of hooks E E, forming a clamp for the upper edge of the side plate, and that one or more hooks or engaging pieces may be used in place of hook K for engagement with the lower edge of the side plate. It is also obvious that other arrangements of springs, plates, and connecting-hooks may be used, and I do not restrict myself to the precise form shown; but

What I claim as my invention is—

1. A device for securing toe-clips to pedals comprising a stationary engaging piece for engaging one edge of the side plate of a pedal, a movable spring-controlled engaging piece for engaging the other edge of the side plate and a guide within which the spring-controlled piece moves, substantially as described.

2. A device for securing toe-clips to pedals comprising a stationary engaging piece and a

movable spring-controlled engaging piece
consisting of a U-shaped portion gripping one
edge of the side plate of the pedal and a tail-
piece moving in a guide directing the move-
5 ment of the movable engaging piece, substan-
tially as described.

In testimony whereof I have hereunto af-

fixed my signature in the presence of two sub-
scribing witnesses.

DAVID BASCH.

Witnesses:

ETHEL R. HAINES,
SEABURY C. MASTICK.